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(FILE 'HOME' ENTERED AT 19:35:26 ON 26 NOV 2002)

FILE 'SCISEARCH' ENTERED AT 19:35:34 ON 26 NOV 2002

L1 0 S OTSUKA?/IN  
L2 5096 S OTSUKA?/AU  
L3 16 S L2 AND POLYMORPH/TI

FILE 'CAPLUS, MEDLINE, BIOSIS, EMBASE, USPATFULL, SCISEARCH' ENTERED AT  
19:46:31 ON 26 NOV 2002

L4 25559 S (LIBRARY OR ARRAY) AND POLYMORP?  
L5 4577 S (LIBRARY OR ARRAY) (P) POLYMORP? (P) (SCREEN? OR TEST?)  
L6 585 S L5 AND (DRUG OR PHARMACE? )  
L7 219 S L6 NOT POLYMORPHISMS,  
L8 180 DUP REM L7 (39 DUPLICATES REMOVED)  
L9 67 S L8 NOT POLYMORPHISM  
L10 24 S L9 NOT OLIGONUCLEOTIDE  
L11 392 S L4 AND POLYMORPH  
L12 149 S L11 AND (DRUG OR PHARMACE? )  
L13 148 DUP REM L12 (1 DUPLICATE REMOVED)  
L14 126 S (LIBRARY OR ARRAY) (P) POLYMORPH  
L15 2 S L14 (P) (DRUG OR PHARMACE? )  
L16 111 S POLYMORPH (P) (DRUG OR PHARMACE? ) (P) (SCREEN? OR TEST?)  
L17 61 DUP REM L16 (50 DUPLICATES REMOVED)

=>

Baker, Maurie

From: Baker, Maurie  
Sent: Tuesday, November 26, 2002 8:06 PM  
To: STIC-ILL  
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251.04  
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**TITLE: PREPARATION OF PIRETANIDE POLYMORPHS AND  
THEIR PHYSICOCHEMICAL PROPERTIES AND  
DISSOLUTION BEHAVIORS**

**AUTHOR: CHIKARAISHI Y (Reprint); SANO A; TSUJIYAMA T;  
OTSUKA M; MATSUDA Y**

**CORPORATE SOURCE: HOECHST JAPAN LTD, DIV PHARMA RES  
& DEV, KAWAGOE, SAITAMA 35011, JAPAN (Reprint); KOBE  
PHARMACEUT UNIV, KOBE 658, JAPAN**

**COUNTRY OF AUTHOR: JAPAN**

**SOURCE: CHEMICAL & PHARMACEUTICAL BULLETIN, (MAY  
1994) Vol. 42, No. 5, pp. 1123-1128.**

**ISSN: 0009-2363.**

**DOCUMENT TYPE: Article; Journal**

**FILE SEGMENT: LIFE**

**LANGUAGE: ENGLISH**

**REFERENCE COUNT: 9**

**\*ABSTRACT IS AVAILABLE IN THE ALL AND IALL**

**FORMATS\***

**AB Piretanide polymorphs were prepared by recrystallization  
using 27 organic solvents. We identified a**

**new polymorphism forms A and B, and 6 solvates. They were  
characterized by X-ray powder diffractometry,**

**differential scanning calorimetry (DSC), thermogravimetry (TG),  
Fourier-transform infrared (FTIR)**

**spectroscopy, elemental analysis and scanning electron  
microscopy. After heating, some solvates**

**transformed to the stable form A, and others to form B. X-ray  
powder diffraction patterns and FTIR**

**spectra of forms A and B were significantly different. However,**

the X-ray powder diffraction patterns  
acid FTIR spectra of form A and the bulk sample were similar. The  
DSC curve of form A showed only an  
endothermic peak at 227 degrees C corresponding to the melting  
point. The DSC curve of form B showed  
endothermic and exothermic peaks at 213 and 216 degrees C,  
respectively, as well as a subsequent  
endothermic peak at 227 degrees C. The metastable form B  
transformed to form A. The dissolution profiles  
of the bulk sample and form B in JP XII, 1st fluid (pH 1.2) at 37  
degrees C were measured by means of  
the dispersed amount. The solubilities of the bulk sample and  
form B were estimated to be 8.3 and 13.3  
mg/100 ml, respectively.

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